PTO/SB/05 (07-03)

Approved for use through 7/31/2003. OMB 0651-0032

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UTILITY			ocket No.	130013/11921 (21635-0116)			
	PATENT APPLICATION	First Inver	ntor	ACKERMAN et al.			
	TRANSMITTAL	This inventor		ARTICLE PROTECTED BY A THERMAL BARRIER COATING HAVING A CERIUM OXIDE-ENRICHED SURFACE PRODUCED BY PRECURSOR			
		Title		INFILTRATION	NEGONOGN —		
(Only for	new nonprovisional applications under 37 CFR 1.53(b))	Express N	fail Label No.	ER 636051385 U	S	<u> </u> و	
	APPLICATION ELEMENTS	400056	0	ill Stop Patent Application	n	P 70	
See MF	PEP chapter 600 concerning utility patent application contents.	ADDRES	00 10. P.C	D. Box 1450 exandria VA 22313-1450		57.5	
1. \(\square \) 2. \(\square \) 3. \(\square \)	Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27.	7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)					
4. 🖂 5.	Specification [Total Pages 15] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure Drawing(s) (35 U.S.C. 113) [Total Sheets 2] Oath or Declaration [Total Sheets 2] a. Newly executed (original or copy) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)	a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies ACCOMPANYING APPLICATION PARTS 9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee) 11. English Translation Document (if applicable) 12. English Translation Document (if applicable) 13. Preliminary Amendment 14. Return Receipt Postcard (MPEP 503)					
5	i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).	15. 16. 	(if foreign priority Nonpublication R (b)(2)(B)(i). Applie or its equivalent.	Priority Document(sis claimed) Request under 35 U. cant must attach for	S.C. 122 m PTO/SB/35		
6. 🛛	Application Data Sheet. See 37 CFR 1.76	17. 🛛		of Express Mailing,			
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) Of prior application No.: Prior application information: Examiner Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.							
	19. CORRESPO						
⊠ Mama	Customer Number: 31450	OR	Corres	spondence address	below		
Name Address					· · · · · · · · · · · · · · · · · · ·		
City		Sta	e	Zip Code			
Country		Teleph	none	Fax			
Name (P.	rint/Type) K. Scott O'Brian A. A.	Regist	ration No. (Attorne	y Agent) 42,94	6		

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date December 12, 2003

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Effective 01/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

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	Complete if Known	
Application Number		
Filing Date	December 12, 2003	
First Named Inventor	ACKERMAN et al.	
Examiner Name	n/a	
Group / Art Unit	n/a	
Attorney Docket No.	130013/11921 (21635-0116)	

METHOD OF PAYMENT (check all that apply)					FEE CALCULATION (continued)							
					3. ADDITIONAL FEES							
☐ Check ☐ Credit card ☐ Money ☐ Other ☐ None Order ☐ Deposit Account:					Large	Entity	Small E	ntity				
Deposit Account:				Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid			
Account	50-1059						1051	130	2051	65	Surcharge - late filing fee or oath	
Number							1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet.	
Deposit							1053	130	1053	130	Non-English specification	
Account	McNees V	/allace &	& Nurick LLC		1		1812	2,520	1812	2,520	For filing a request for reexamination	
Name The Commissio	ner is autho	rized t	o (check a	ll that anni			1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
☐ Charge fee(s)☐ Charge any a	indicated be	low [🛮 Credit any	y overpayr	ments	I	1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
☐ Charge fee(s)				e filing fe	e		1251	110	2251	55	Extension for reply within first month	
to the above-ider			unt. CULATION			-	1252	410	2252	205	Extension for reply within second month	
1 01010 51							1253	930	2253	465	Extension for reply within third month	
Large Entity	LING FEE Small Entity	-					1254	1,450	2254	725	Extension for reply within fourth month	
Fee Fee Code (\$)	Fee Fee Code (\$)	<u>Fe</u>	e Descriptio	<u>ın</u>	Fee Paid		1255	1,970	2255	985	Extension for reply within fifth month	
1001 750	2001 375	1 14	ility filing fee		770	٦	1401	320	2401	160	Notice of Appeal	
1002 330	2002 165		esign filing fe	۵		┨	1402	320	2402	160	Filing a brief in support of an appeal	
1003 520	2003 260		ant filing fee	•	-	1	1403	280	2403	140	Request for oral hearing	
1004 750	2004 375	Re	eissue filing fe			1	1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1005 160 2005 80 Provisional filling fee		J	1452	110	2452	55	Petition to revive – unavoidable					
SUBTOTAL (1) (\$) 770				1453	1,300	2453	650	Petition to revive - unintentional				
			• ,		(4) 113	_	1501	1,300	2501	650	Utility issue fee (or reissue)	
2. EXTRA CLAI	M FEES						1502	470	2502	235	Design issue fee	
				Fee from below	Fee Paid		1503	630	2503	315	Plant issue fee	
Total Claims 17	-20 **	= [18	= 0	٦	1460	130	1460	130	Petitions to the Commissioner	
Independent	=	<u> </u>				า์ ่	1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
Claims 3	-3 **	= 0	×	86	= 0]	1806	180	1806	180	Submission of Information Disclosure Stmt	
Multiple Dependent Large Entity	, Small E	ntitu	×		= 0]	8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
Fee Fee Code (\$)	Fee Code	Fee (\$)	Fee Descr	iption			1809	750	2809	375	Filing a submission after final rejection (37 CFR § 1.129(a))	
1202 18	2202	9	Claims in e	excess of 2	0		1810	750	2810	375	For each additional invention to be	
1201 84	2201	42	Independe	nt claims ir	excess of 3						examined (37 CFR § 1.129(b))	
1203 280	2203	140	•	•	aim, if not paid		1801	750	2801	375	Request for Continued Examination (RCE)	
1204 84	2204	42	** Reissue original pa	independent claims over tent 1802 900 1802 900 Request for expedited examination								
1205 18	2205	9	** Reissue over origin		excess of 20 a	nd	Other 5		£.3		of a design application	
011070711 101						Other fo	ee (speci	ry)	-			
SUBTOTAL (2) (\$) 0												
**or number previously paid, if greater: For Reissues, see above						*Redu	ced by Ba	asıc Filinç	ree P	aid SUBTOTAL (3) (\$) 40		

SUBMITTED BY Complete (if applicable)											
Name (Print/Type)	K. Scott O'Brian	Registration No. Attorney/Agent)	42,946	Telephone	717-237-5492						
Signature	lo Tott	Alm		Date	December 12, 2003						

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CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. 1.10

I hereby certify that the following documents are being deposited with the United States Postal Service Express Mail Post Office to Addressee service under 37 C.F.R. 1.10 on the date indicated below, Express Mail Label Number **ER** 636051385 US, dated December 12, 2003 and addressed to:

Mail Stop PATENT APPLICATION Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

- 1. Return Acknowledgment Postcard
- 2. Utility Patent Application Cover Sheet
- 3. Fee Transmittal Form
- 4. Patent Application (15 Pages)
- -5. Drawings (2 sheets)
- 6. Declaration (1 copy of executed original, 2 pages)
- 7. Application Data Sheet
- 8. NASA Declaration (1 copy of executed original, 2 pages)
- 9. Power of Attorney (1 copy of executed original, 5 pages)
- 10. Assignment Recordation Form
- 11. Assignment (1 copy of executed original, 4 pages)
- 12. Information Disclosure Statement
- 13. PTO/SB/08

By: (Type signature) Lindsay Vican

Written Signature: Audlay
Date: December 12, 2003